Subscribe (Full Service)   Register (Limited Service, Free)   Login

Search: ⦿ The ACM Digital Library   ○ The Guide

quantum key distribution

Searching within **The ACM Digital Library** for: quantum key distribution (start a new search)

Found **663** of **250,316**

REFINE YOUR SEARCH   Search Results   Related Journals   Related Magazines   Related SI

▼ Refine by Keywords

quantum key distribut

Discovered Terms

▼ Refine by People
Names
Institutions
Authors
Editors
Reviewers

▼ Refine by
Publications
Publication Year
Publication Names
ACM Publications
All Publications
Content Formats
Publishers

▼ Refine by
Conferences
Sponsors
Events
Proceeding Series

ADVANCED SEARCH
🔍 Advanced Search

FEEDBACK
📝 Please provide us
with feedback

Found **663** of **250,316**

Results 1 - 20 of 663   Sort by ⌐relevance

📦 Save results to a Binder

Result page: **1**   2   3   4

1 A proof of the security of quantum key distribution (extended abstrac
   Eli Biham, Michel Boyer, P. Oscar Boykin, Tal Mor, Vwani Roychowdhury
   May 2000   **STOC '00:** Proceedings of the thirty-second annual ACM sympo
   Publisher: ACM Request Permissions
   Full text available: 📄 Pdf (968.70 KB)   Additional Information: full citation, references,
   Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 38,   Citation

2 Quantum public key distribution reinvented
   Charles H. Bennett, Gilles Brassard
   July 1987 **SIGACT News** , Volume 18 Issue 4
   Publisher: ACM
   Full text available: 📄 Pdf (124.56 KB) Additional Information: full citation, references, cited

   Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 54,   Citation

3 Quantum cryptography: A survey
   Dagmar Bruss, Gábor Erdélyi, Tim Meyer, Tobias Riege, Jörg Rothe
   July 2007   **Computing Surveys (CSUR)** , Volume 39 Issue 2
   Publisher: ACM Request Permissions
   Full text available: 📄 Pdf (335.26 KB)   Additional Information: full citation, abstract,

   Bibliometrics: Downloads (6 Weeks): 104,   Downloads (12 Months): 873,   Citat

   We survey some results in quantum cryptography. After a brief introduc
   provide the quantum-mechanical background needed to present some f
   quantum cryptography. In particular, we review quantum ...

   Keywords: Quantum bit commitment, quantum cryptography, quantun

4 Quantum cryptography in practice
   Chip Elliott, David Pearson, Gregory Troxel
   August 2003 **SIGCOMM '03:** Proceedings of the 2003 conference on Applic;
                architectures, and protocols for computer communications
   Publisher: ACM Request Permissions
   Full text available: 📄 Pdf (809.93 KB)   Additional Information: full citation, abstract,

   Bibliometrics: Downloads (6 Weeks): 40,   Downloads (12 Months): 299,   Citatic

   BBN, Harvard, and Boston University are building the DARPA Quantum I

that delivers end-to-end network security via high-speed Quantum Key
Network against sophisticated eavesdropping attacks. ...

Keywords: IPsec, cryptographic protocols, error correction, key agreen
amplification, quantum cryptography, quantum key distribution, secure

5 Quantum information: opportunities and challenges or "What's this q
have to do with cyber security?"
Ryan Bennink
May 2008   **CSIIRW '08:** Proceedings of the 4th annual workshop on Cybe
intelligence research: developing strategies to meet the cyber :
intelligence challenges ahead
Publisher: ACM

Full text available: Pdf (98.67 KB)   Additional Information: full citation, appendic
terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 77,   Citatior

Modern society is shaped by the ability to transmit, manipulate, and sto
Although we tend to think of information as abstract, information is phy
process. How then should we understand ...

Keywords: one time pad, quantum algorithms, quantum computing, qi
distribution

6 Unconditional security in quantum cryptography
Dominic Mayers
May 2001   **Journal of the ACM (JACM)** , Volume 48 Issue 3
Publisher: ACM Request Permissions
Full text available: Pdf (394.84 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 246,   Citatic

Basic techniques to prove the unconditional security of quantum crypto
applied to a quantum key distribution protocol proposed by Bennett anc
considers a practical variation on the protocol in ...

Keywords: quantum cryptography, quantum information theory, uncor

7 25 years of quantum cryptography
Gilles Brassard, Claude Crépeau
September 1996 **SIGACT News** , Volume 27 Issue 3
Publisher: ACM
Full text available: Pdf (918.87 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 227,   Citatic

The fates of *SIGACT News* and Quantum Cryptography are inseparably i
Stephen Wiesner's invention of "conjugate coding" is unknown but it cai
the premier issue of *SIGACT News*---or ...

8 Limits on the ability of quantum states to convey classical messages

Ashwin Nayak, Julia Salzman
January 2006 **Journal of the ACM (JACM)** , Volume 53 Issue 1
Publisher: ACM Request Permissions
Full text available: Pdf (171.65 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 76,   Citation

We revisit the problem of conveying classical messages by transmitting
optimal bounds on the number of quantum bits required for this task. M
problem, and on other communication tasks in ...

Keywords: Communication complexity, Holevo bound, Inner Product ft
quantum channel, information theory, lower bounds, privacy amplificati
shared entanglement, superdense coding

9 Quantum mechanical approaches to information processing
Steven Prawer
June 2006   **ICS '06:** Proceedings of the 20th annual international conferer
Publisher: ACM Request Permissions
Full text available: Pdf (295.88 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 55,   Citation

Unless new paradigms can be developed for information processing the
which has guided the development of the computer industry for nearly f
shift is to design and engineer a new generation ...

10 Knowledge in quantum systems
R. van der Meyden, Manas Patra
June 2003   **TARK '03:** Proceedings of the 9th conference on Theoretical as
knowledge
Publisher: ACM
Full text available: Pdf (1.09 MB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 25,   Citation

This paper applies to quantum systems a modelling for the logic of knov
reasoning about distributed systems, but since then applied to game the
artificial intelligence. A formal model of quantum ...

11 New lattice-based cryptographic constructions
Oded Regev
November 2004 **Journal of the ACM (JACM)** , Volume 51 Issue 6
Publisher: ACM Request Permissions
Full text available: Pdf (575.80 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 18,   Downloads (12 Months): 136,   Citatic

We introduce the use of Fourier analysis on lattices as an integral part c
The tools we develop provide an elegant description of certain Gaussian
points. Our results include two cryptographic ...

Keywords: Lattice, average-case hardness, cryptography, public key e

12 New lattice based cryptographic constructions
Oded Regev
June 2003   **STOC '03:** Proceedings of the thirty-fifth annual ACM symposiu
Publisher: ACM   Request Permissions
Full text available: Pdf (366.52 KB)   Additional Information: full citation, abstract,
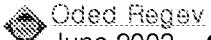
Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 33,   Citation

We introduce the use of Fourier analysis on lattices as an integral part c
tools we develop provide an elegant description of certain Gaussian dist
Our results include two cryptographic ...

Keywords: average-case hardness, cryptography, lattices, public key e

13 Quantum information processing and communication: the computer :
Philippe Jorrand
March 2007 **ACM-SE 45:** Proceedings of the 45th annual southeast regiona
Publisher: ACM   Request Permissions
Full text available: Pdf (69.00 KB)   Additional Information: full citation, abstract,
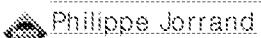
Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 51,   Citation

Information is physical: the laws which govern its encoding, processing
its unavoidable physical embodyment. In today's computing, informatio
Maxwell's classical physics: this assertion holds ...

14 Quantum cryptography
D. Wiedemann
September 1986 **SIGACT News** , Volume 18 Issue 2
Publisher: ACM
Full text available: Pdf (154.28 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 54,   Citation

An idea of Stephen Wiesner [1] is expanded to give a method of public
secure under the principles of quantum mechanics. It appears that this
implemented in favorable environments.

15 High-level interconnect model for the quantum logic array architectur
Tzvetan S. Metodi, Darshan D. Thaker, Andrew W. Cross, Isaac L. Chuang,
March 2008 **Journal on Emerging Technologies in Computing System**
Publisher: ACM   Request Permissions
Full text available: Pdf (525.94 KB)   Additional Information: full citation, abstract,
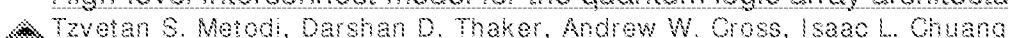
Bibliometrics: Downloads (6 Weeks): 16,   Downloads (12 Months): 201,   Citatic

We summarize the main characteristics of the quantum logic array (QL/
at the key issues not described in the original conference publications: p
logical interconnect. The design goal ...

Keywords: QLA, Quantum computer architecture design, fault toleranc
teleportation

16 Quantum networks: from quantum cryptography to quantum architec
Tatjana Curcic, Mark E. Filipkowski, Almadena Chtchelkanova, Philip A. D'A
Foster, Douglas Cochran
October 2004 **SIGCOMM Computer Communication Review** , Volume 34 Is
Publisher: ACM

Full text available: Pdf (221.26 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 17,   Downloads (12 Months): 132,   Citatic

As classical information technology approaches limits of size and functio
for new paradigms for the distribution and processing of information. Ou
provide a broad view of the beginning ...

17 Toward a world with quantum computers
Dave Bacon, Debbie Leung
September 2007 **Communications of the ACM** , Volume 50 Issue 9
Publisher: ACM Request Permissions

Full text available: Html (27.03 KB), Pdf (118.15 KB) Additional Information: full citat
abstract

Bibliometrics: Downloads (6 Weeks): 48,   Downloads (12 Months): 663,   Citatic

Surveying the recent past and projecting future developments and appli
information science.

18 An introduction to quantum computing for non-physicists
September 2000 **Computing Surveys (CSUR)** , Volume 32 Issue 3
Publisher: ACM Request Permissions
Full text available: Pdf (491.89 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 79,   Downloads (12 Months): 792,   Citatic

Richard Feynman's observation that certain quantum mechanical effects
on a computer led to speculation that computation in general could be c
these quantum effects. This speculation proved ...

Keywords: complexity, parallelism, quantum computing

19 Communicating quantum processes
Simon J. Gay, Rajagopal Nagarajan
January 2005 **POPL '05:** Proceedings of the 32nd ACM SIGPLAN-SIGACT sy
        programming languages
Publisher: ACM Request Permissions
Full text available: Pdf (247.88 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 68,   Citation

We define a language CQP (Communicating Quantum Processes) for mo
quantum and classical communication and computation. CQP combines
the pi-calculus with primitives for measurement and transformation ...

Keywords: formal language, quantum communication, quantum compu
verification

Also published in:
January 2005 **SIGPLAN Notices** Volume 40 Issue 1

20 Tensor norms and the classical communication complexity of nonloc
Yaoyun Shi
May 2005   **STOC '05:** Proceedings of the thirty-seventh annual ACM symp
Publisher: ACM   Request Permissions
Full text available: Pdf (202.30 KB)   Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 36,   Citation

Nonlocality is at the heart of quantum information processing. In this pa
amount of classical communication required to simulate a nonlocal quar
general upper bounds, which in turn translate to ...

Keywords: bell inequality, classical simulation, communication complex
quantum entanglement, tensor norms

Result page: **1** 2 3 4